

Release A GSFC DAAC Hardware and Software Mapping Baseline 12/11/96					
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Subsystem	HWC/CSCI	Platform	Custom Executables	COTS	Target Operating System
Ingest	ICLHW	SPRHW-MSFC-3 (becomes ICLHW-GSFC-1.1)	peer agent with encapsulator, STMGT network resource manager, STMGT staging resource manager, STMGT staging monitor server, nnpost, MSS log browser, <u>acl editor</u>	Irix Op sys, snmp agent, dce, oodce#, motif, x11r5, net.h++#, tools.h++#, dbtools.h++#, sybase SQL server, tivoli client, TCPWrappers, Tripwire, Npassword, Ingest early interface test DB	SGI Indy
				Legato networker client, Legato networker server, Sybase client (xalib, ctlib, dblib using dbtools.h++)	
Ingest	ICLHW	AITHW-MSFC-2 (becomes ICLHW-GSFC-2)	CSS SDPF gateway, CSS TSDIS Gateway, dssgw, PollingIngest, Staging disk class libraries, RequestManager, peer agent with encapsulator, Ingest user and operator guis, advertising clients, sdsrv wrapper, <u>acl editor</u>	Op sys, snmp agent, dce, oodce#, motif, x11r5, net.h++#, tools.h++#, dbtools.h++#, tivoli client, TCPWrappers, Tripwire, Npassword, kftp, kerberos client, nfs mount staging between ICLGHW-GSFC-1.1 and 2	Sun Sparc 20/50
			Auto network ingest manager, nnpost, MSS log browser	Legato networker client, sybase client (xalib, ctlib, dblib using dbtools.h++)	

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
			subscription engine, peer agent with encapsulator		
Ingest	ICLHW	DDSHW-MSFC-1 (becomes ICLHW-GSFC-3) (V0 migration)		Op sys,snmp agent,dce,oodce#,motif,x11r5, net.h++#,tools.h++#,dbtools.h++#, tivoli client, TCPWrappers,Npassword, Tripwire,kftp,kerberos client, Sybase sql server, V0 migration DB, V0 inspection DB	Sun Sparc 20/50
			Auto network ingest manager, STMGT network resource manager, STMGT staging resource manager, STMGT staging monitor server	Legato networker client, sybase client (xalib, ctplib, dblib using dbtools.h++)	
			subscription engine, peer agent with encapsulator, MSS log browser, <u>acl</u> editor		

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
CSS	DCHCI	CSS-GSFC-1 (CSS server)	peer agent with encapsulator, nnpost, MSS log browser, acl editor	Op sys, snmp agent, dce (Replicate Directory, Security and Time% servers), oodce, motif, x11r5, net.h++#, tools.h++#, dbtools.h++#, tivoli client, TCPWrappers, Tripwire, Npassword	HP J210
				Legato networker client, sybase client (xalib, ctlib, dllib using dbtools.h++), Sybase SQL server, MSS standby DB, ACL standby DB, remedy standby DB, accugraph standby DB	
MSS	MSSHCI	MSS-GSFC-4 (MSS server) (Compile/build platform)	MsAgDpty, peer agent with encapsulator, MDA, nnpost, Accountability Manager, MSS user registration server, MSS order tracking server, MSS User audit GUI, MSS log browser, acl editor	Op sys, snmp agent, dce, oodce#, motif, x11r5, C, C++, Softbench, bx#, graphpak#, epak#, tools.h++#, dbtools.h++#, Remedy server, tivoli server, wabi/office, Sybase replication server, essm, PNM, HPOV, dce dev tlkt	HP J210
				TCPWrappers, Tripwire, Npassword, netscape browser, DCE time% server, sybase SQL server, pure coverage, perl5, clearcase client (point to krypton)	
				primary ACL database (sybase), Sybase client (xalib, ctlib, dllib using dbtools.h++), netscape commerce server (unsecured), Legato networker client, MSS primary DB, remedy primary DB, accugraph primary DB	

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
MSS	MSSHCI	MSS GSFC-1.1 (Clearcase server)	peer agent with encapsulator, Software change manager ,DDTS, XRP II Baseline Manager, nnpost, MSS log browser, <u>acl editor</u>	Op sys,snmp agent, dce, oodce#, motif, x11r5, clearcase server tools.h++#, dbtools.h++#, , tivoli client, <u>Clearcase VOB server</u>	Sun Sparc 20/71
				TCPWrappers, Tripwire, Npassword, Unify DBMS for XRP II Baseline manager, Legato networker client, IQ report writer, sybase client (xalib, ctlib, dblib using dbtools.h++)	
MSS	MSSHCI	MSS-GSFC-3 (MSS WS) (Computer system administration)	GUI executables, GUI applications, peer agent with encapsulator, ECS Desktop and Workbench, nnpost, cmi, MSS log browser, <u>acl editor</u>	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, Remedy access, tivoli client,wabi/office, netscape browser, TCPWrappers,Tripwire,Npassword, zmail, sqr wkbch, <u>Clearcase view server</u>	Sun Sparc 20/50
				Legato networker client, sybase client& (xalib, ctlib, dblib using dbtools.h++),	
Data Server	ACMHW	ACMHW-GSFC-3 (Ops WS) (Archive data service administration)	DSS GUI executables, GUI applications, AMASS GUI, peer agent with encapsulator, ECS Desktop and Workbench, nnpost, MSS log browser, <u>acl editor</u>	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, Remedy access, tivoli client,wabi/office, netscape browser, TCPWrappers, Npassword, Tripwire, zmail, sqr wkbch,	Sun Sparc 20/50
				sybase client& (xalib, dblib using dbtools.h++, ctlib), Legato networker client	

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
Data Server	ACMHW	ACMHW-GSFC-4 (Ingest distribution technician)	Ingest GUI executables, DSS GUI executables, GUI applications, peer agent with encapsulator, ECS Desktop and Workbench, nnpst, MSS log browser, <u>acl editor</u>	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, Remedy access, tivoli client, wabi/office, netscape browser, TCPWrappers, Tripwire, Npassword, SQR wkbch, zmail	Sun sparc 20/50
				sybase client& (xalib, dblib using dbtools.h++, ctlib), Legato networker client	
Data server	ACMHW	ACMHW-GSFC-1 and 2 (APC sybase server)	peer agent with encapsulator, STMGT Network resource manager, nnpst, MSS log browser, <u>acl editor</u>	Irix Op sys, snmp agent, dce, oodce#, motif, x11r5, net.h++#, tools.h++#, dbtools.h++#, sybase SQL server, tivoli client, TCPWrappers, Tripwire, Npassword	SGI Challenge L
				kerberos client, kftp, Legato networker client, Sybase client (xalib, ctlib, dblib using dbtools.h++), Ingest Ops DB, Ingest Training DB, User Pull DB, Storage Management DB, Ingest Mode Testing DB	

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
Data Server	ACMHW	MSS-MSFC-3 (becomes ACMHW-GSFC-5) front-end to APC server	Science Data Server Process, peer agent with encapsulator, SDSRV admin process, STMGT network resource manager, STMGT pull monitor process, polling ingest, ingest request manager, advertising clients, acl editor	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, tivoli client, TCPWrappers, Tripwire, Npassword	Sun Solaris 2.4
			Ingest autonetwork manager, nnpost, MSS log browser	sybase client (xalib, dblink using dbtools.h++, ctlib), Legato networker client	
			CSS SDPF gateway, CSS TSDIS gateway, dssgw, SDSRV wrapper, subscription engine, staging disk class libraries, cgi scripts, DSSIngest ftp server	kerberos client, kftp	
Data Server	DIPHW	DIPHW-GSFC-1 and 2 (distribution server)	DDIST Distribution server process, peer agent with encapsulator, STMGT CDROM Resource management process, STMGT tape resource manager, STMGT printer resource manager, nnpost, MSS log browser, acl editor	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, tivoli client, TCPWrappers, Tripwire, Npassword, anonymous ftp	Sun Sparc 20/712

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
			DSSDist ftp server, ROMMAKER	Legato networker client, sybase client (xalib, ctlib and dblib using dbtools.h++)	
Data Server	DRPHW	DRPHW-GSFC-1 (FSMS server)	peer agent with encapsulator, Ingest "user push area" cleanup script, nnpost, MSS log browser, <u>acl editor</u>	Irix Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, amass, tivoli client ,	SGI Challenge XL
				TCPWrappers, Tripwire, Npassword, kftp, kerberos client, Legato networker client, Sybase client (xalib, ctlib, dblib using dbtools.h++)	
Data Server	DRPHW	DRPHW-GSFC-2 (FSMS server) (compile/build platform)	peer agent with encapsulator, STMG T Staging Resource Manager Process, STMG T archive manager, Ingest "user push area" cleanup script, nnpost, MSS log browser, <u>acl editor</u>	Irix Op sys, snmp agent, dce, oodce#, motif, x11r5, clearcase client (point to krypton), C, C++, F77, CaseVision, bx#, graphpak#, epak#, tools.h++#, dbtools.h++#, amass, tivoli client ,dce dev tlkt,	SGI Challenge XL
				Sybase client (xalib, ctlib, dblib using dbtools.h++), TCPWrappers, Tripwire, Npassword, kftp, kerberos client, Legato networker client, pure coverage	

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
Data Server	DRPHW	DDSHW-MSFC-2 (becomes DRPHW-GSFC-6) front-end sun	peer agent with encapsulator, STMGT Staging Resource Manager Process, STMGT Staging Disk Monitor Process, nnpst, MSS log browser, STMGT archive manager, <u>acl_editor</u>	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, Remedy*, tivoli client, wabi/office, netscape browser, sybase client (xalib, ctlib, dblib using dbtools.h++), dbtools.h++#, TCPWrappers, Tripwire, Npassword, sqr wkbch	Sun 20/712
				Legato networker client,	
Data Server	DRPHW	DRPHW-GSFC-3 and 4 (DBMS server)	peer agent with encapsulator, nnpst, MSS log browser, <u>acl_editor</u>	Irix Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, sybase SQL server, SQS server, tivoli client, TCPWrappers, Npassword, Tripwire, Legato networker client	SGI Challenge XL
				sybase client (xalib, ctlib, dblib using dbtools.h++), science data server metadata DB, subscriptions DB	
Data server	DDSHW	DDSHW-GSFC-1 and 2	Document Data server process, peer agent with encapsulator, document repository process, www server process (secured, and unsecured), Advertising Custom CGI Bin Programs, advertising client, Ingest, MSS, PDPS custom CGI bin programs	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, tivoli client, TOPIC server, illustra, dbtools.h++#, TCPWrappers, Tripwire, Npassword, Legato networker client, <u>perl</u>	Sun Sparc 20/712

Subsystem	HWC/CSCI	Platform	Custom Executables	COTS	Target Operating System
			dss client, nnpst, tcl, expect, public ftp area, MSS log browser, <u>acl editor</u>	netscape commerce server (secured and unsecured; must be configured for DNS lookup) (netscape access go to the document data server then to MSS netscape commerce server,	
				sybase client (xalib, ctlib,dblib using dbtools.h++),	
Planning	PLNHW	PLNHW-GSFC-2 (Planning and queuing server) (compile/build platform)	peer agent with encapsulator, Resource planning application, Production planning application, subscription manager, advertising clients, delphi hcl, dss client	Op sys, snmp agent, dce, oodce#, motif, x11r5, clearcase client (point to krypton), C, C++, Sparcworks, bx#, graphpak#, epak#, tools.h++#, dbtools.h++#, sybase SQL server for autosys DB, net.h++#, tivoli client,dce dev tlkt, wabi/office	SUN Sparc 20/71
			Autosys event processor (backup), execution manager, data manager, Resource manager, Expect, nnpst, MSS log browser, <u>SDP Toolkit</u> , <u>HDF EOS</u> , <u>acl editor</u>	TCPWrappers, Tripwire, Npassword, netscape browser, Autosys, AutoXpert, Sybase SQL server for PDPS DB, Legato networker client, sybase client (xalib, ctlib,dblib using dbtools.h++),pure coverage, PDPS DB, Autosys DB, <u>NCSA HDF</u>	

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
Planning		PLNHW-GSFC-1 Planning Workstation (Resource Planner/Performance Analyst)	peer agent with encapsulator, Production planning application, Resource Planning application, ECS Desktop and Workbench, Operator, QA flag update, nnpost, MSS log browser, <u>acl</u> <u>editor</u>	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, Remedy access, tivoli client, wabi/office, netscape browser, TCPWrappers,Tripwire, Npassword, sqr wkbch, zmail, encrypt	Sun Sparc 20/50
				sybase client (xalib, ctlib,dblib using dbtools.h++),Autosys, AutoXpert, Legato networker client	
Processing	SPRHW	SPRHW-GSFC-1 (Science Processor) (compile/build platform)	peer agent with encapsulator (currently does not run because there is no oodce), HDF- EOS, SDP Toolkit, Data Preprocessing, Science software, Processing support scripts, nnpost, MSS log browser, <u>acl</u> <u>editor</u>	Irix Op sys, snmp agent, dce, motif, x11r5, clearcase client (point to krypton and MSS-GSFC-1.1), C, Kai C++, SGI F77, NAG and SGI F90, CaseVision, NCSA HDF, bx#, graphpak#, epak#, tools.h++#, dbtools.h+ +#, IDL,IMSL pure coverage	SGI Challenge PC
				TCPWrappers,Tripwire,Npassword, Crack, kftp, kerberos client, tivoli client, sybase client (xalib, ctlib,dblib using dbtools.h++), Legato Networker server and client, autosys remote agents (one instance for SSIT and one for production)	

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
Processing	AQAHW	PLNHW-GSFC-2 (no dedicated hw at GSFC for qa)			Sun Sparc 20/71
Processing	AITHW	AITHW-GSFC-1 (SSIT development support)	Production planning application, Resource Planning application, peer agent with encapsulator, nnpost, MSS log browser	Op sys, snmp agent, dce, oodce#, motif, x11r5, C, C++, Sparcworks, bx#, graphpak#, epak#, tools.h++#, dbtools.h++#, Remedy access, tivoli client, wabi/office, netscape browser, f77, Sun f90, idl, imsl, zmail	Sun Sparc 20/50
			Document viewing, AIT Manager GUI, AI&T Tools, PGE Processing GUI, PGE Registration GUI, <u>acl</u> editor	FORCHECK, Ghostview, emacs, Adobe acrobat, WABI, XEDIT, autosys, autoxpert, TCPWrappers, Tripwire, Npassword, kftp, sqr wkbch, enscript	
			ECS DSKTP, EosView, HDF-EOS, ECS Workbench, <u>SDP Toolkit</u>	kerberos client, clearcase client (point to MSS-GSFC-1.1), Legato networker client, Sybase Client& (xalib,ctlib,dblib using dbtools.h++), NCSA HDF	

Subsystem	HWC/CSCI	Platform	Custom Executables	COTS	Target Operating System
Processing	AITHW	AITHW-GSFC-2 AIT Workstation / DBMS Server (SSIT development support)	Subscription manager, PDPS DB server, Autosys DB server, AutoSys Event Processor, Autosys Agent, Data Manager, Execution Manager, Resource Manager, peer agent with encapsulator, ECS Desktop, advertising clients	Op sys, snmp agent, dce, oodce#, motif, x11r5, C, C++, Sparcworks, bx#, graphpak#, epak#, tools.h++#, dbtools.h++#, Remedy access, tivoli client, dce dev tlkt, wabi/office, netscape browser, f77, sun f90, idl, imsl, zmail, ddts (AIT copy)	Sun Sparc 20/50
			SDP Toolkit, HDF-EOS, nnpst, MSS log browser, acl_editor	Sybase SQL server for PDPS database, Sybase SQL server for autosys DB, FORCHECK, Ghostview, emacs, Adobe acrobat, Netscape browser, WABI, XEDIT, autosys, autoxpert, sqw wkbch, kftp, kerberos client, Legato networker client, encrypt	
				TCPWrappers, Tripwire, Npassword, NCSA mosaic, clearcase client (point to MSS-GSFC-1.1), sybase client (xalib, ctlib, dblib using dbtools.h++), NCSA HDF	
Data Management	DMGHW	DMGHW-GSFC-1 (Data specialist)	Specialist GUIs, peer agent with encapsulator, ECS desktop and workbench, nnpst, MSS log browser, acl_editor	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, Remedy access, tivoli client, wabi/office, netscape browser, TCPWrappers, Tripwire, zmail,	Sun Sparc 20/50

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
				Legato networker client, Sybase client& (xalib, ctlib, dblib using dbtools.h++),	
Data Management	DMGHW	DMGHW-GSFC-2 (User assistance), 3 (User assistance)	Specialist GUIs, peer agent with encapsulator, ECS desktop and workbench, nnpost, MSS user registration client, MSS order tracking client, MSS log browser, <u>acl editor</u>	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, Remedy access, tivoli client, wabi/office, netscape browser, TCPWrappers, Tripwire, zmail,	Sun Sparc 20/50
				Legato networker client, Sybase client& (xalib, ctlib, dblib using dbtools.h++),	
Data Management	DMGHW	DMGHW-GSFC-4 (Database Administrator)	Specialist GUIs, peer agent with encapsulator, ECS desktop and workbench, nnpost, MSS log browser, <u>acl editor</u>	Op sys, snmp agent,dce, oodce#, motif,x11r5,tools.h++#,dbtools.h++#, Remedy access, tivoli client,wabi/office,Sybase client& (xalib, ctlib,dblil using dbtools.h++),netscape browser, TCPWrappers,Tripwire, Npassword, sqr wkbch, zmail	HP 715/64
				Legato networker client,	
Data Management	DMGHW	DMGHW-GSFC-5 (DMG Server)	DMG Gateway, CSS Gateway excutables - 2 processes per connection, peer agent with encapsulator, nnpost, tcl, expect, dss client, MSS log browser, <u>acl editor</u>	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, tivoli client, Sybase replication server, kerberos client, TCPWrappers,Tripwire, Npassword,	HP J210

Subsystem	HWCI/CSCI	Platform	Custom Executables	COTS	Target Operating System
				kftp, sybase SQL server, Legato networker client, sybase client (xalib, ctlib, dblib using dbtools.h++), V0 gateway DB, Adsrv DB	
Data Management	DMGHW	DMGHW-GSFC-6 (DMG Server) (Compile/build platform)	DMG Gateway, CSS Gateway executables - 2 processes per connection, peer agent with encapsulator, nnpost, tcl, expect, dss client, MSS log browser, <u>acl editor</u>	Op sys, snmp agent, dce, oodce#, motif, x11r5, tools.h++#, dbtools.h++#, tivoli client, Sybase replication server, kerberos client, TCPWrappers, Tripwire, Npassword, C,C++, Softbench, bx#, graphpak#, epak#,	HP J210
				kftp, time% server, sybase SQL server, Legato networker client, sybase client (xalib, ctlib, dblib using dbtools.h++), V0 gateway DB, Adsrv DB	
Interoperability	ADSHWCI co-located with DMGHWCI	DMGHW-GSFC-5, 6 (DMG Server)	Custom Advertising Server, Custom Library for Advertising Clients		
Notes: The development environment is provided only on select platforms					
# automounted					
NIS, DNS and mailservers are kept in separate baselines					
ftp, telnet will be installed on all platforms. ftp, telnet access to ECS will be allowed only during the I&T phase.					
ftp access to ECS from outside will be blocked by the router filter during the later phases of I&T.					
ftp, telnet access from ECS to external sites will be allowed according to the Rel A security guideline					

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rlogin, rsh will be disabled on all platforms					
% DCE time source is NASA36					
Clearcase uses proprietary DB that will be on the same server where clearcase server resides					
DDTS user proprietary DB that will be on the same server where DDTS resides					
& ISQL and other Sybase utilities					
Legato networker server is installed wherever there is an 8mm tape drive (internal or external)					